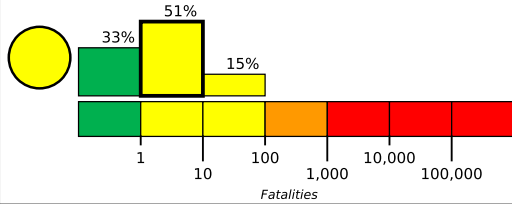


## M 5.4, 4 km WNW of Hope Bay, Jamaica

Origin Time: 2023-10-30 15:57:20 UTC (Mon 10:57:20 local)  
Location: 18.2091° N 76.6051° W Depth: 10.0 km

Created: 13 hours, 36 minutes after earthquake

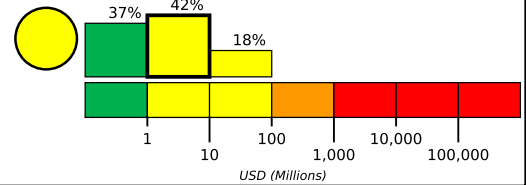
### Estimated Fatalities



Yellow alert for shaking-related fatalities and economic losses. Some casualties and damage are possible and the impact should be relatively localized. Past yellow alerts have required a local or regional level response.

Estimated economic losses are less than 1% of GDP of Jamaica.

### Estimated Economic Losses

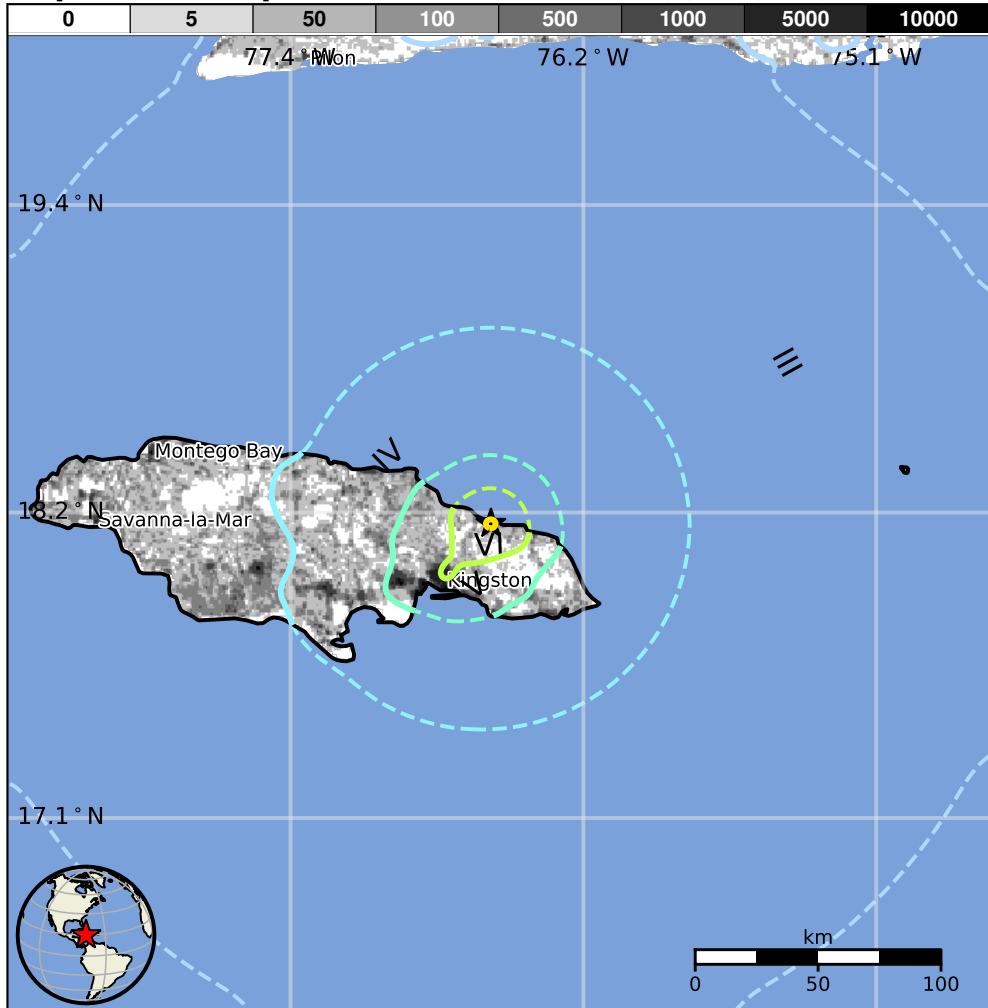


## Estimated Population Exposed to Earthquake Shaking

| ESTIMATED POPULATION EXPOSURE (k=x1000) |                       | —*       | 932k   | 747k  | 717k     | 591k     | 12k         | 0          | 0        | 0        |
|---|-----------------------|----------|--------|-------|----------|----------|-------------|------------|----------|----------|
| ESTIMATED MODIFIED MERCALLI INTENSITY   |                       | I        | II-III | IV    | V        | VI       | VII         | VIII       | IX       | X+       |
| PERCEIVED SHAKING                       |                       | Not felt | Weak   | Light | Moderate | Strong   | Very Strong | Severe     | Violent  | Extreme  |
| POTENTIAL DAMAGE                        | Resistant Structures  | None     | None   | None  | V. Light | Light    | Moderate    | Mod./Heavy | Heavy    | V. Heavy |
|   | Vulnerable Structures | None     | None   | None  | Light    | Moderate | Mod./Heavy  | Heavy      | V. Heavy | V. Heavy |

\*Estimated exposure only includes population within the map area.

## Population Exposure



### Structures

Overall, the population in this region resides in structures that are vulnerable to earthquake shaking, though resistant structures exist. The predominant vulnerable building types are mud wall and informal (metal, timber, GI etc.) construction.

### Historical Earthquakes

| Date (UTC) | Dist. (km) | Mag. | Max MMI(#) | Shaking Deaths |
|------------|------------|------|------------|----------------|
| 1988-05-09 | 15         | 4.5  | VI(10k)    | 0              |
| 1993-01-13 | 17         | 5.5  | VII(2k)    | 1              |
| 1976-02-19 | 186        | 5.9  | VII(5k)    | 1              |

### Selected City Exposure

from GeoNames.org

| MMI | City               | Population  |
|-----|--------------------|-------------|
| VII | Buff Bay           | 3k          |
| VII | Hope Bay           | 2k          |
| VI  | Mona Heights       | 3k          |
| VI  | Half Way Tree      | 19k         |
| VI  | New Kingston       | 584k        |
| VI  | Annotto Bay        | 6k          |
| VI  | <b>Kingston</b>    | <b>938k</b> |
| V   | Spanish Town       | 145k        |
| IV  | May Pen            | 45k         |
| IV  | Mandeville         | 47k         |
| III | <b>Montego Bay</b> | <b>83k</b>  |

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us700017jv#pager>

bold cities appear on map.

(k = x1000)

Event ID: us700017jv